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INLAND TRANSPORT COMMITTEE

Working Party on Transport Statistics (Fifty-fifth session, 9-11 June 2004, agenda item 5(a))

### TRANSPORT DATABASE AND INFORMATION SYSTEMS DEVELOPMENT

Status report on the Trans-European North-South Motorway (TEM) Project Database

### Transmitted by the secretariat

<u>Note</u>: The Working Party, at its fifty-fourth session, expressed interest in following progress made in the development of the database and information system in the transport sector (TRANS/WP.6/145, para. 33). With this in mind, the Project Central Office of the Trans-European North-South Motorway (TEM) Project has prepared a report which is reproduced below.

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GE.04-21062

### TRANSPORT DATABASE AND INFORMATION SYSTEMS DEVELOPMENT

### Status report on the Trans-European North-South Motorway (TEM) Project Database

### A. SYSTEM DEVELOPMENT

- 1. The data collection and processing activities of the TEM Project started from its outset in 1977. For many years, it has been limited to basic data on the status of the TEM motorway network and the TEM Corridor, consisting of existing road links to be replaced by the TEM motorways in the future.
- 2. In the framework of the expanded Project activities in mid-eighties, the need arose to collect additional data on principal geometric parameters of these links and, therefore, two databases (TEMSTAT 1 and TEMSTAT 2) were established. TEMSTAT 1 reflects the status of the existing and future TEM motorway network, while TEMSTAT 2 presents the status of the national road system, fulfilling the function of missing connections as well as of the remaining E-road (AGR) and TINA links.
- 3. In these databases, the following data are being stored at the TEM Project Central Office (PCO) in Warsaw:
  - motorway/road number (international/national)
  - lengths of sections (in operation, under construction, planned)
  - number of carriageways/lanes
  - lane and shoulder widths
  - maximum longitudinal gradient
  - lengths within built-up areas
  - lengths of road having design speed less than 60 km/h
  - lengths of missing climbing lanes
  - lengths of bridges with bearing capacity less than 60 T
  - number of at-level railway crossings
  - number of underpasses with clearance less than 4.5 m
  - estimated travel times (cars, trucks)
  - traffic volumes (AADT) according to the last census.

The data collection and processing is based on the uniform reference system, consisting of sections, subsections and portions of subsections.

- 4. The examples of the TEMSTAT 1 and 2 data collection forms were attached to the report submitted to the fifty-second meeting of the Working Party held on 14-16 November 2001 (TRANS/WP.6/2001/11).
- 5. On the basis of the decision of the twenty-sixth session of the TEM Steering Committee (25-27 November 1996, Geneva), the extended TEMSTAT data collection commenced in 1997. Data thus obtained are being processed and analysed by the Project Central Office in Warsaw.

The twenty-eighth session of the Steering Committee (22-26 November 1997, Geneva) further decided that the TEMSTAT forms, together with the reference system, would be revised and updated annually and that a special co-ordination meeting of experts responsible for data supply would be convened every year.

- 6. In accordance with this decision, the TEMSTAT Coordination and Training meetings were held in Istanbul, Turkey (25-27 March 1998), in Prague, Czech Republic (30 March-1 April 1998), in Vilnius, Lithuania (7-9 April 1999), in Budapest, Hungary on 17-19 April 2000, on 18-20 April 2001, on 8-9 April 2002 and on 19-21 May 2003 and in Prague on 18-19 March 2004.
- 7. At these meetings, the problems related to the TEMSTAT data collection and processing, to the reference system and mapping are being discussed and clarified on a country-by-country basis.
- 8. As from 1999, data on the status of the network as of 1 January each year are communicated to the TEM PCO by contact persons from the 13 participating countries electronically. This information is also used to describe the annual status of the TEM network (see Annex 1).
- 9. As regards the TEMSTAT maps, the TEM PCO is in position to produce these basic types of maps in the ArcView format:
  - maps showing the present status of the TEM corridor and main (AGR, TINA) road network in the TEM region
  - maps showing the existing (in operation) and future (under construction, in design stage, planned) motorway network in the chosen time horizons
  - maps showing the present or forecasted traffic flows in the chosen time horizons.

All these maps cover either the whole TEM region, separate member countries or selected areas (e.g. vicinity of a big city or industrial agglomeration).

- 10. As from the year 2000 annually, on the basis of the data transferred by the member countries, the separate TEMSTAT road/motorway infrastructure maps of all TEM member countries mostly on the scale 1:750000 are launched by the TEM PCO and made available to the member countries in hard and electronic copies. By integration of individual TEMSTAT country maps, the map of the whole TEM region is also being produced.
- 11. Furthermore, as from the end of 2002, the TEMSTAT data transferred electronically by the member countries and processed by the TEM PCO are being interactively linked to the TEM mapping system, making it possible to introduce the reported annual infrastructure changes to the respective maps automatically and thus having transformed the TEMSTAT mapping system to the full-fledged GIS one.
- 12. Within the framework of the co-operation of the TEM PCO with the WERD (Western European Road Directors), transformed in 2003 to CEDR (Conference of European Directors of Roads), its representatives participate regularly in the abovementioned annual TEMSTAT

meetings with the aim of harmonizing road and motorway data collection and processing procedures, reference and mapping systems of the newly acceded Central European countries with those of the European Union.

- 13. Furthermore, in accordance with the TEM Programme of Work for the years 2001-2004, constituting an integral part of the TEM Co-operation Trust Fund Agreement, the elaboration of the TEM Master Plan commenced in September 2003. This activity was also included in the Short-term Strategy for Further Integration of TEM in New European Transport Environment, approved by the 36<sup>th</sup> session of the Steering Committee held at Geneva on 4-6 December 2001, representing one of its most important outcomes.
- 14. At its 39<sup>th</sup> session which took place at Geneva, Switzerland on 26-28 May 2003, the Steering Committee approved the revised Terms of Reference, elaborated by the UNECE Transport Division and decided that the Master Plan had to be finished in September 2004. The Committee also gave a mandate to the Master Plan Coordination Group (Director and/or Regional Adviser of the UNECE Transport Division, TEM Project Manager and his Deputy, External Consultants) to start the work as soon as possible and to apply a flexible approach, reflecting the real situations encountered, understanding that the Committee will be kept informed about the decisions taken and progress reached.
- 15. The elaboration of the TEM Master Plan resulted in the need of additional data collection necessary for priority projects' identification and evaluation in line with the approved evaluation methodology, elaborated by the external consultants.
- 16. For this purpose, the attached templates (Annexes 2-6) were sent to the TEM participating countries as well as to 8 other interested Eastern and South-Eastern European countries to be returned filled in by the end of April 2004.

Annexes: 6

# **UNECE** TEM Project Central Office

Warsaw, Poland

# **STATUS OF TEM NETWORK (as of 1.01.2003)**

COUNTRY	Total length	(in study	RAMMED , preliminary design phases)		DER RUCTION	IN OPE	RATION	COMPARATIVE INDICATORS				
	km	one carriageway	Both carriageways	one carriageway	both carriageways	one carriageway	both carriageways	% of total TEM length	CONSTRUCTION PROGRESS (% of length under construction)	DEGREE OF COMPLETION (% of length in operation)		
Column No.	1	2	3	4	5	6	7	8	9	10		
AUSTRIA	485	35	36	-	_	35	414	2.1	-	89.0		
BOSNIA and HERZEGOVINA	792 - 792		-	-	-	-	3.3	-	-			
BULGARIA	925	-	617	- 15		19	274	3.9	1.6	30.7		
CROATIA	1465	311	564	36 257		101	420	6.2	18.8	32.1		
CZECH REPUBLIC	972	8	405	8			3.7	54.2				
GEORGIA	1053	-	1045	-	_	-	8	4.4	-	0.8		
HUNGARY	1624	40	1037	-	-	40	547	6.9	-	34.9 99.7		
ITALY	1519	-	4	-	-	-	1515	6.4	-	99.7		
LITHUANIA	733	205	11	10	-	266	456	3.1	0.7	80.3		
POLAND	3297	425	2247	9	152	86	464	13.9	4.7	15.4		
ROMANIA	2983	-	2735	-	134	-	114	12.6	4.5	3.8		
SLOVAKIA	936	-	487	23	77	588	348	3.9	9.5	68.6		
TURKEY	6921	-	378	-	321	4227	1995	29.2	4.6	59.4		
TOTAL	23705	1024	10358	86	988	5362	7082	100.00	4.3	41.2		

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# Annex 2

# <u>UNECE TEM and TER Master Plans</u> TEMPLATE 1 – Identified Projects

Project ID*	Road and related infrastructure	Project Name	Project cost (€MIO)	Overall Budget (€MIO)
	Sections	e.g. Rehabilitation of: Ankara by- pass	Please indicate the currency	
				per year of the years covered by the
				national plans

Note: Each country is expected to fill a template

Nature of Project:	?	Rehabilitation	?	Upgrade	?	Other
Location:		eographical Descrij eferably a map)	including main	cities	, ports, etc an	
Status of Project:	?	Study	?	Tendering	?	Planning
	?	Identification	?	Design	?	Under Construction
Project						
Objectives: *						
	ew p					
(AADT)**						
a) All vehicles b) International	troff	io.				
b) International b1) trucks	train					
b2) buses / c	oact	nes				
b3) private ve						
c) Domestic tra						
c1) trucks						
c2) buses / c	oach	nes				
c3) private ve						
II. Projected avera	ige a	annual daily traffic				
(AADT) (2010)**	ł					
a) All vehicles						
b) International	traff	ic				
b1) trucks						
b2) buses / c						
b3) private ve	ehici	es				
	TIC					
<li>c) Domestic traft</li>						
c) Domestic traf c1) trucks						
c) Domestic traf c1) trucks c2) buses / c						
c) Domestic traf c1) trucks c2) buses / c c3) private ve	ehicl	es				
c) Domestic traf c1) trucks c2) buses / c c3) private ve III. Travel costs for	ehicl r <b>pri</b>	es vate vehicles/for	tion			
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<ul> <li>c) Domestic traff</li> <li>c1) trucks</li> <li>c2) buses / c</li> <li>c3) private vertication</li> <li>massenger in a</li> <li>considered (existing</li> <li>implemented)**</li> <li>IV. Travel time for post of the section</li> </ul>	ehicle r pri bus istin mass pass cons cons plem gn c	es vate vehicles/for per km for the sec g, and if project is sengers and for fre sidered (existing, a ented)***	eight and			

motorway, open access motorway, etc.;)       c) No of lanes         d) Length (in km)       e) Type of special structures (length of tunnels, length of bridges, etc)         f) Existence of tolls / toll fare       f) Existence of tolls / toll fare         VI. Technical Design characteristics of the project       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	b) Type of road (	highway, controlled access
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total budget per Private sector:	source or in % of	Grants (e.g. from EU, USA, Japan etc.):
source)****	source)****	

Note: Data characterized with

\* are optional

\*\* if not existent in official statistics, an estimate is sufficient. If no estimation, then relevant studies will be used as sources (i.e. TINA, TIRS etc.)

\*\*\* estimation only \*\*\*\* if not available leave it blank

# TEMPLATE 2C Maritime/port Fiche<sup>1</sup>

Port Nam											
Loca	ation:	(Geograph a map)	ical Desci	ription includi	ng r	nain cit	ies, p	orts, etc	and	prefe	rably
Port	and inte		nnections	s descriptior	1:						
-		-		information	if	there	are	plans	for	the	port
infra		/installation				1					
<b>I.</b>				ffic (AAT)**							
a)		igers (interna			、						
b)				, private cars	)						
c)		s domestic (		,							
d)	domest	,	,								
e)		ers (numbe	r of TEUs	, tons)—							
0	domest		(								
f)		ners (numbe	rotIEUs	, tons)—							
		/exports		(							
g)	tranship	ners (numbe oment	rofieus	, tons)—							
II.	Project (2010)*	-	annual ti	raffic (AAT)							
a)		igers (interna									
b)			•	, private cars	)						
c)		s domestic (		,							
d)		l cargo in to	ns (interna	ational,							
,	domest	,	( ==								
e)		ners (numbe	r of IEUs	, tons)—							
0	domest	-	( ==								
f)		ners (numbe	r of IEUs	, tons)—							
-	•	/exports		ta:===)							
g)		ners (numbe	TOTIEUS	, tons)—							
III.	tranship			tono for							
		nual throug		containers)							
IV.		costs in po									
		ecosts in pol s etc) ***									
a)	Per cor										
b)		of general c	argo								
c)	Per true										
d)		o (average)									
V.		ng/processi	ng time i	n ports***							
a)	Per cor										
b)		of general c	argo								
c)	Per true	•	<u>.</u>								
VI.	Travel	costs in po s etc) ***	rts (hand	ling, port							

<sup>&</sup>lt;sup>1</sup> TEMPLATE 2B is related to Rail and related infrastructure not relevant to TEM

a) b) c) d)	Per container Per ton of general cargo Per truck Per ship average	
VII.	Characteristics of port connections with the other ports in the TEM or TER countries	
a)	Container ships: connections per month, cost of sea voyage, travel time of sea voyage, number of TEUs per year	
b)	General cargo ships: connections per month, cost of sea voyage, travel time of sea voyage, number of tons per year	
c)	RO/RO RO-RO/ferries: connections per month, cost of sea voyage, travel time of sea voyage, number of trucks and private vehicles per year	

Note: Data characterized with

- \* are optional
- if not existent in official statistics, an estimate is sufficient. If no estimate then relevant studies will be used as sources (i.e. TINA, TIRS, etc.)

\*\*\* estimation only

Criteria	Default Set of Scores by		Scores per Country - involved in the project **																			
	consultants*	AT	BG	B-H	BL	CZ	CR	FYROM	GE	GR	HU	IT	LT	MD	PL	RO	RU	SK	SL	S-M	TU	UKR
C <sub>A</sub>																						
C <sub>A1</sub>																						
C <sub>A2</sub>																						
C <sub>A3</sub>																						
C <sub>A4</sub>																						
$C_{A5}$																						
C <sub>B</sub>																						
C <sub>B1</sub>																						
C <sub>B2</sub>																						
C <sub>B3</sub>																						
C <sub>B4</sub>																						
C <sub>B5</sub>																						
C <sub>C</sub>																						
$C_{C1}$																						
C <sub>C2</sub>																						
C <sub>C3</sub>																						
C <sub>C4</sub>																						5
$C_{C5}$																						

### TEMPLATE 3 Project Criteria Scores (each country complete the relevant column, if so wishes)

\* Or provided by the Delphi team when necessary. \*\* In case country experts disagree with proposed scores, they may fill up the respective column of their country with their proposed scores, providing an adequate justification of the wanted change.

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### Weights Default Set of Weights per Country - involved in the project \*\* Weight by consultants\* AT ΒG BL CZ CR FYROM RO RU SL S-M UKR B-H GE GR HU IT LT MD PL SK ΤU WA W<sub>A1</sub> 12% $W_{A2}$ 4% W<sub>A3</sub> 8% $W_{A4}$ 12% $W_{A5}$ 4% WB 10% $W_{B1}$ 10% W<sub>B2</sub> $W_{B3}$ 13% $W_{B4}$ 10% $W_{B5}$ 8% Ww 4% $W_{W1}$ 1% $W_{W2}$ W<sub>W3</sub> 3% W<sub>W4</sub> 1% 2% $W_{W5}$ SUM 100%

### TEMPLATE 4 Project Criteria Weights (each country complete the relevant column, if so wishes)

\* Provided by the Delphi team (See Annex II).

\*\* In case country experts disagree with proposed weights. They may fill up the respective column of their country with their proposed weights providing an adequate justification of the wanted change.